# "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826120

2963-66	in the second of the second	
CESSION NR: AT5023567	교육학교 교육 한 분류는 의 백 기 등을 148 대표를 하고 한 기존 등 기 등 기 등학	0
e results of ground observat y radiation at 2500—3000 Å d zodiacal light. Measureme on exists in this region.	small. A comparison of these tions at 3200—4000 Å lead to is small and at 3200—4000 Å ents at 1700—2500 Å indicated thus, results of measurements if the absence in the night sky?	the conclusion that night does not exceed star glow that no night sky radia- over the entire wavelength of high-energy excitation
Ceapes. Ofthe arc. Hasi	/ Irgares	[A] [JP] [ [JP] [ [ [ ] ] [ [ ] ] [ [ ] ] [ [ ] ] [ [ ] ] [ ] [ [ ] [
SOCIATION: none		
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OCIATION: none	ENCL: 00 OTHER: 008	SUB CODE: ES, AA ATD PRESS: 4109
OCIATION: none MITTED: 02Sep65		

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ACCESSION NR: AT5023567

screened out UV radiation; its long-wave boundary was near 6000 Å. The second was used to investigate wavelengths at 2500 to 4000 Å, and two narrow-band filters with passbands of 100 Å filtered emission at 5577 Å and 3914 Å, respectively. An IR spectrophotometer recorded thermal radiation concurrently with the operation of the other two instruments. A correlation was found to exist between readings of the UV and IR spectrophotometers in the 9.65-µ ozone band. A correlation of intensities was also disclosed near the long-wave boundary of the UV spectrum at  $\lambda$  > 3000 Å and in the readings of the illumination sensor. These readings depended strongly on cloudiness because the albedo of clouds in the red zone is substantially greater than the albedo of the Earth's surface and of the clear atmosphere. The correlation confirms that at  $\lambda > 3000$  Å, the noticeable part of atmospheric radiation is due to tropospheric dispersion and reflection occurring below the basic mass of the ozone layer. Conclusions were also reached on local, diurnal, and latitudinal variations of airglow. A difficulty arose in the evaluation because of the dependence of the readings on cloud cover. In making the measurements in space, it was necessary to include reflections of airglow from the atmosphere and glow of astronomical origin in addition to airglow itself. Consequently, results varied with atmospheric conditions by as much as a factor of two, with the minimum occurring during cloudless weather and the maximum during total cloudiness. The correlation of readings of one light filter (5577 Å) with the others indicated that the share of illumination from the stars and

Card 2/3

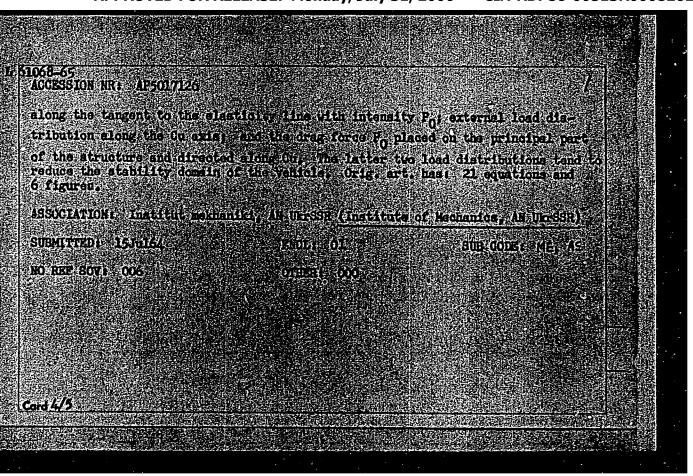
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ACCESSION REG. APPOINTING	UE/038/63/00/006/0018/008
AUTHOR ( s. Casmosha past, ) ( s. c.)	
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SOURCE Prilipinaya madianlika iyo	Amor 67, 1965, 1984, Carlotte
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	en this requestion of a sevent directs to to the con- tennes one conservators with government conservations.
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	$\left  \mathcal{U}_{t,i}(\underline{\partial^{t}_{i}}(S_{i})) - \frac{\partial^{t}_{i}}{\partial L}  F  \frac{\partial^{t}_{i}(S_{i})}{\partial L} \right  = \frac{1}{2}$
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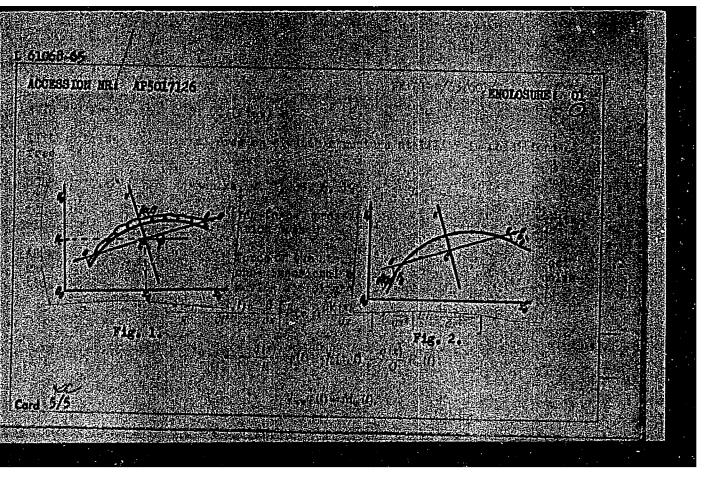
# If GIOGRIPSACCESSING FRO APPROVIZE Where V(x,t) is transverse deflection of the stricture, $f_1$ and $f_2$ are the project of time of the external forces on the V(x,t) and $f_2$ are defined by $R_2(0) = \int_{\mathbb{R}} J_2(t) dt, \quad R_2(0) = \int_{\mathbb{R}} J_2(t) dt, \quad dt = \int_{\mathbb{R}} J_2(t) dt,$

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CIA-RDP86-00513R000826120





### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826120

ACC NR: AT7003835

SOURCE CODE: UR/3169/66/000/018/0058/0063

AUTHOR: Krasnoshchek, A. Ya.; Bezverkhov, B. D.; Bogayevskiy, L. G.

ORG: Dnepropetrovsk Geophysical Expedition (Dnepropetrovskaya geofizicheskaya ekspeditsiya)

TITLE: Tectonic structure of the northwestern Black Sea

SOURCE: AN UkrSSR. Geofizicheskiy sbornik, no. 18, 1966. Geofizicheskiye issledovaniya stroyeniya zemnoy kory (Geophysical investigations of the structure of the earth's crust), 58-63

TOPIC TAGS: geophysic expedition, tectonics, geologic exploration, prospecting

ABSTRACT: This article presents the results of a geophysical investigation of the tectonic structure of the northwestern area of the Black Sea. The investigation was undertaken in connection with the importance of the area with regard to the formation of gas and petroleum deposits. The opinions expressed concerning the tectonic structure of this area of the Black Sea will help to elicit the prospects of the presence of gas and petroleum within the Black Sea depression and to select the future direction of research operations. Orig. art. has: 3 figures.

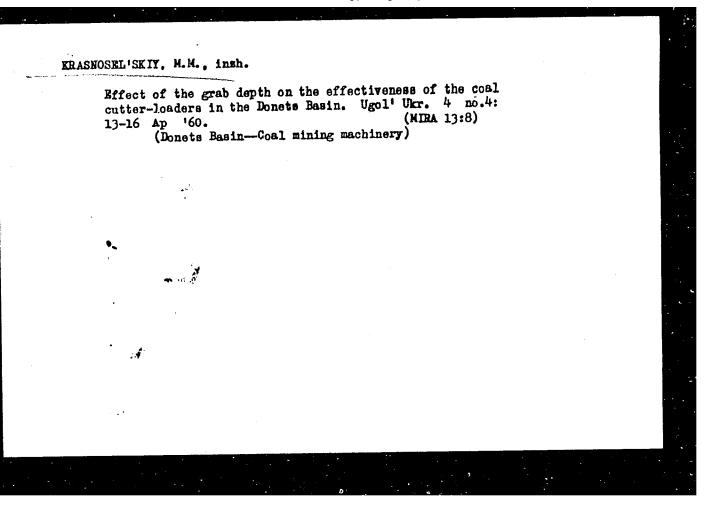
SUB CODE: 08/ SUBM DATE: 10Mar65/ ORIG REF: 008

Card 1/1

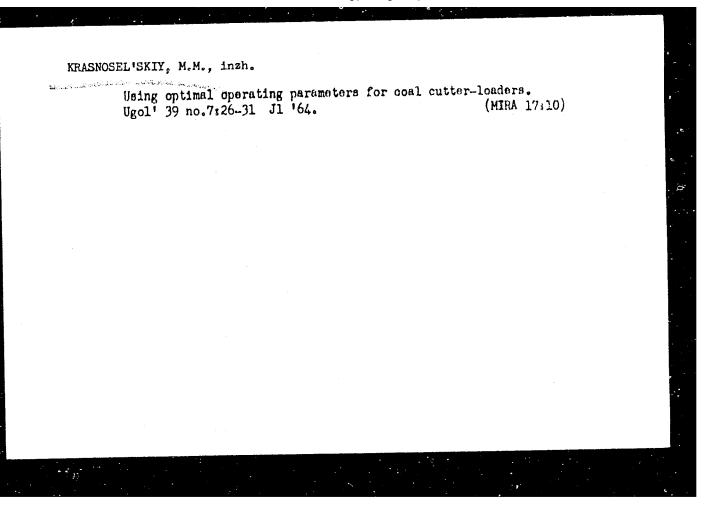
KRASNOSHCHEKOV, L.F., kand. tekhn. nauk

Selecting heating units. Vod. i san. tekh.no.8:2-6 Ag 164

(MIRA 18:1)



# "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826120



WFuel and Metallurgical Furnaces", by A. Ya. Mikhaylenko. Tsvet. Mat., 14, No. 1, 1939. (Book Review)

Report U-1506, 4 Oct. 1951.

REASMOSELISKIY. M.V.; RUDNEV, M.P.

Performance of annular furnaces at the Semiluki plant. Ogneupory 22 no.1:23-26 '57. (MIRA 10:3)

1. Semilukskiy ogneupornyy zavod. (Semiluki--Refractory materials)

KRASNOSELSKIY, M.V.

AUTHORS:

Boldyrev, L.V., Krasnosel'skiy, M.V., Rudnev, M.F.

131-3-2/16

TITLE:

The Increase of the Efficiency of Shaft Furnaces With Gas Heating

(Povysheniye proizvoditel'nosti shakhtnykh pechey na gazovom

otoplenii)

PERIODICAL:

Ogneupory, 1958, Vol 23, Nr 3, pp 101-105 (USSR)

ABSTRACT:

At the Semiluki Plant for Refractories it was possible, by improving the construction of furnaces and of the burning process,

to increase the daily output from 25-40 t to 65-70 t.

I.A. Savkevich assisted in this work. The authors further describe the construction of the furnaces as well as the working process in detail. The revolving grate is shown in the illustration and its useful oress section is given by table 1. At present the burning process takes place as follows: 1.) The preparation of clay for burning. The clay is crushed by means of a machine and is formed into briquettes of 1 kg weight and shaped like flattened balls (Ø 120 and 90 mm). The quality of the clay and of the briquettes is

continually controlled. 2.) Charging and discharging of the furnace. Every furnace is discharged in the course of each working shift according to the temperature of burning, of the material with which

Card 1/2

the furnace is filled, and the moisture content of the briquettes.

The Increase of the Efficiency of Shaft Furnaces With Gas Heating

131-3-2/16

In accordance with the work to be performed the control apparatus KAM-3 are adjusted, by means of which the charging drums are controlled (table 2). They are blocked by means of an electron millivolt meter which continuously controls the exhaust gases and which switches the control apparatus on or out according to necessity. Discharging of the furnace takes place in dependence of charging the furnace in order that a constant level of material be maintained. 3.) Gas- and air supply is determined according to consumption per hour, regulation being carried out according to burners. 4.) Control of furnace work. In the shaft furnaces of the Semiluksk works the following measurements are continuously carried out: Gas consumption, temperature of exhaust gases, temperature of the material in the furnace, furnace pressure and the level of material in the furnace. Besides, the temperature of the discharging fireclay bricks and their quality is continuously controlled. Table 3 contains the working data of shaft furnaces for the years 1950-1957. There are 3 tables, 1 figure, and 4 Soviet references

ASSOCIATION: Semiluki Plant for Refractories (Semilukakiy ogneupornyy zavod)

2. Furnaces-USSR 3. Refractory 1. Gas burning furnaces-Operation materials-Processing 4. Refractory materials-Production

Card 2/2

KRASNOSEL'SKIY, M.V.; PETROV, M.M.

Conveyor dryers for large articles. Mashinostroitel' no.2:7-8 F '64. (MIRA 17:3)

GOLOMB, L.M. [Holomb, L.M.]; KRASNOSEL'SKIY, V.M. [Krasnosel's'kyi, V.M.]

Measurement and control of the 'pH of vat print paste. Leh.prom.
no.4:60-61 0-D '62. (MIRA 16:5)

1. Rubezhanskiy filial nauchno-issledovatel'skogo instituta
organicheskikh poluproduktov i krasiteley.
(Color printing--Equipment and supplies)

AUTHORS:

Portnov, M. A. Candidate of Technical SOV/64-58-4-16/20

Sciences, Krasnosel'skiy, V. N.,

TITLE:

Investigation of Glass Electrodes for the Automati; Control of the Production of Betanaphthol (Issledovaniye steklyannykh elektrodov dlya avtomaticheskogo kontrolya

proizvodstva betnnaftola)

PERIODICAL:

Khimicheskaya promyshlennost', 1958, Nr 4, pp.

255-257 (USSR)

ABSTRACT:

The present paper investigates high-temperature glass electrodes which can be used up to temperatures of 100°; M. D. Kravchenko and A. D. Starikova cooperated in the experimental part. The glass electrodes made of usual "electrode-glass" of the type "Korning 015", MacInnes,

Yuz and others have some disadvantages; the first experiments for the production of a useful glass composition carried out by Sokolov and Pasynskiy (Ref 2) and Perley (Ref 1) showed that the additions of cesium- and rubidium oxide to lithium glass improve its quality and permit measurements up to 90° in alkaline medium. The present paper investigates

Card 1/3

Investigation of Glass Electrodes for the Automatic 50V/64-58-4-16/20 Control of the Production of Betanaphthol

domestic types of glass electrodes worked out by A. S. Benevol'skiy at the TsLA (Central Laboratory for Automation) of the MChM. The electrodes had the following composition: SiO<sub>2</sub> - 64%, LiO<sub>2</sub> - 26%, Cs<sub>2</sub>O - 2%, BaO - 3%,  $\text{Nd}_2\text{O}_3$  - 3%,  $\text{La}_2\text{O}_3$  - 2%; the investigations were carried out at the interval pH = 1 - 12 at  $50 - 90^{\circ}$ . The authors supply data on the technique of the investigations and they mention the results obtained. From these data may among other things be seen that a preliminary soaking of the electrodes does not bring about any change, while the hydrogen function dE/dpH at a certain temperature remains constant within a wide pH-range. The maximum deviation of the EMF of the electrode in the same buffer did not exceed 12 mV, independent of the previous operation conditions. The reproducibility of the electrodes with an automatic pH-meter is given  $0.5 \pm 0.4$  pH. There are 5 figures, 5 tables, and 2 references, 1 of which is Soviet.

Card 2/3

Investigation of Glass Electrodes for the Automatic 30 1/64-58-4-16/20 Control of the Production of Betanaphthol

ASSOCIATION:

Rubezhanskiy filial nauchno-issledovatel'skogo instituta organicheskikh poluproduktov i krasiteley imeni K. Ye. Voroshilova (Rubezhnoye Branch of the Scientific Research Institute for Organic Semiproducts and Dyes imeni K. Ye. Voroshilov)

- 1. Naphthalems--Synthesis 2. Glass electrodes--Applications
- 3. Heat resistan glass--Applications

Card 3/3

KRASNOSHAFKA, M.M., doktor tekhn.nauk, prof. (Kiyev)

System for generating d.c. and a.c. with a stable frequency at a varying speed of the primary motor. Elektrichestvo no.6:38-44

Je '161. (MIRA 14:10)

(Electric generators) (Airplanes-Electric equipment)

KRASNOSHAPKA, MAKSIM MITROFANOVICH, doktor tekhn.nauk, prof.;
SHERSTOBITOV, IVAN SERGEYEVICH, inzhener

Transfer coefficient of an inverted single-armature converter with singular splitting of the poles. Izv. vys. ucheb. zav.; elektromekh. 4 no.5:30-34 '61. (MIRA 14:7) (Electric current converters)

GRANDBERG, I.I.; KRASMOSHCHEK, A.P.; KOST, A.N.; FAIZOVA, G.K.

Pyrazoles. Part 38: Isopyrazole-pyrazole rearrangement. Zhur. ob. khim. 33 no.8:2586-2597 Ag '63. (MIRA 16:11)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

GARKALENKO, I. 1.6; KRASNOSHCHEK, A.Ya.

Eastern extension of the Dobruja. Geofiz.sbor. no. 182.86 (65. (MIR: 18.17))

l. Bnepropetrovskaya geofizicheskaya ekspeditsiya tresta
"Ukrgeofizrazvedka". Submitted September 21, 1964.

### "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826120

Krasnoshche K, I.F.

USSR/Cultivated Plants - Fruits. Berries.

М.

Abs Jur

: Ref Zhur - Biol., No 4, 1958, 15760

Author

: I.F. Krasnoshchek, V.I. Tyutyun

Inst Title : Cultivating Apples in the Nursery.

(Vyrashchivaniye yabloni v pitomnike).

Orig Pub

: Sadovodstvo, vinogradarstvo i vinodeliye Moldavii, 1957,

No 3, 55-57.

Abstract

: No abstract.

Card 1/1

### "APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826120

USER 00 W. IY OFFICER & Continuated Plants. Fruits. Berries. Huts. Tea. Mar. Journ Ber Ebur -Biologiya, No. 5, 1799, No. 20485 Ernonoshohek, I.F. 1. 1. 1. 10 10 10 10 at 19% : The Effect of Methods of Frunding Grape 5.57.3 Cuttings on Their Root Taking. Vincdeliye i vinogradaretvo SSSN, 1958, No.2, oaka. Peba 57 It has been shown in observations ande by APSTELOT : Uman' Agricultural Institute in the foreststeppe estone portion of the Ukraine that the development of basel roots in transplanted grape stalks increases the frost resistance or the vines. Cuttings out under the node without the entire diaphragm (2-3 mm belowthe diaphragm) or through the node even with the entire diaphragm do not thrive wall and produce seedlings with poorly developed basal 0.1:D: 2.13

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Jan Car : Cultivated Plante.

ans. John . . . . 18 Came subsloopy , 25. . . , 1979, to, 10585

. JOSE : 1.79T.

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.E-1: .CI : roots. The strucest basal roots on the seedlings developed when the cuttings were taken under the full node at 2-3 mm below the diaphragm. A characteristic of the structure of annual snoats of the European grape varieties is the broken alternation (2:1) of nodes with full and incomplete diaphragms. At nodes with a pereloped diaphrage there is always a readrai or Antionescence. Cactuage should be cal in such a wagner that the lower part of the :

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# APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R0008

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# "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826120

25. 26.	L 10360-67 EWP(j)/EWT(m) RM	
	ACC NR: AP7003108 SOURCE CODE: UR/0079/66/036/007/1240/1243	
	AUTHOR: Zemlyanskiy, N. I.; Chernaya, N. M.; Turkevich, V. V.; Krasnoshchek, V. I.	
5	ORG: L'vov State University (L'vovskiy gosudarstvennyy universitet)	
1 K	TITLE: Esters of selenothiophosphoric acid. III. Mixed esters of 0,0-dialkyl-(aryl)selenothiophosphoric acid	
	SOURCE: Zhurnal obshchey khimii, v. 36, no. 7, 1966, 1240-1243	
	TOPIC TAGS: organoselenium compound, ester, organic synthetic process, phosphoric acid, IR spectroscopy, chromatography	
	ABSTRACT: The authors synthesized for the first time the potassium salt of	
	0,0-diethylselenothiophosphoric acid and investigated its reactions with	
.	alkylating agents: alkyl bromides, alkenes, and alkynes. Reaction of the potassium salt with certain alkyl bromides yielded new mixed esters of	
.	0,0-diethylselenothiophosphoric acid, the reaction proceeding at the selenium	
	atom. The methods of infrared spectroscopy and thin-layer chrcmatography	
.	indicated that the alkylation of the potassium salt results in the formation	
·,	primarily of the thione isomer. This was confirmed by synthesizing the	-
	isomeric propyl and isoamyl esters of 0,0-diethylselenothiophosphoric acid with a thiol structure by the reaction of 0,0-diethylchloroselenophosphate with	
	potassium mercaptides. Mixtures of the isomers were obtained, and their forma-	•
	tion was interpreted as a partial rearrangement of the thione isomer to the	:
. ]	thiol isomer during its isolation. Orig. art. has: 1 figure, 2 formulas and 1 table. [JPRS: 38,970]	
$\cdot$	1 table. [JPRS: 38,970] SUB CODE: 07 / SUBM DATE: 17May65 / ORIG REF: 005 / OTH REF: 002	
l	C-4 375 Ch / 500 Ch / 5/2/26/118	
	Cara 1/1 015 0925 2064	-

GUL', Sergey Mikhaylovich; KAMENEV, Nikoley Pawlovich; KOPYLOV, Boris Mikhaylovich; KRUKOVSKIY, Ignatiy Vladislavovich; NEDOSEKIN, Dmitriy Fedorovich; SEMERIKOV, Ivan Vasil'yevich; BARINOV, V.A., prof., doktor, retsenzent; KHRENOV, L.S., prof., doktor, retsenzent; KRASNOSHCHEKOV, A.N., prepodavatel', retsenzent; POLUNICHEV, I.A., red. izd-va; BACHURINA, A.M., tekhm. red.

[Laboratory manual of geodesy] Rukovodstvo dlia prakticheskikh zaniatii po geodezii. Moskva, Goslesbumizdat, 1960. 266 p. (MIRA 14:7)

1. Moskovskiy lesotekhnicheskiy institut (for Barinov). 2. Moskovskiy institut inzhenerov vodnogo khozyaystva imeni Ye.R.Vil'yamsa (for Khrenov). 3. TSentral'nyy zaochnyy lesotekhnicheskiy tekhnikum (for Krasnoshchekov)

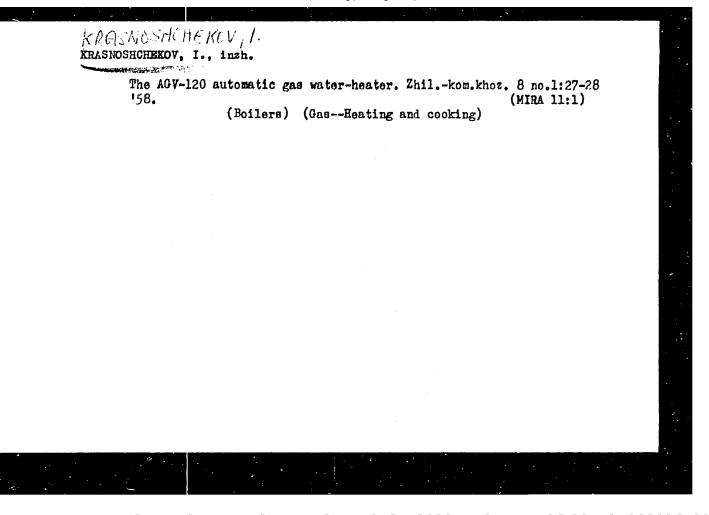
(Surveying-Handbooks, manuals, etc.)

KRASHOSHCHEKOV, G.

Collective Farms

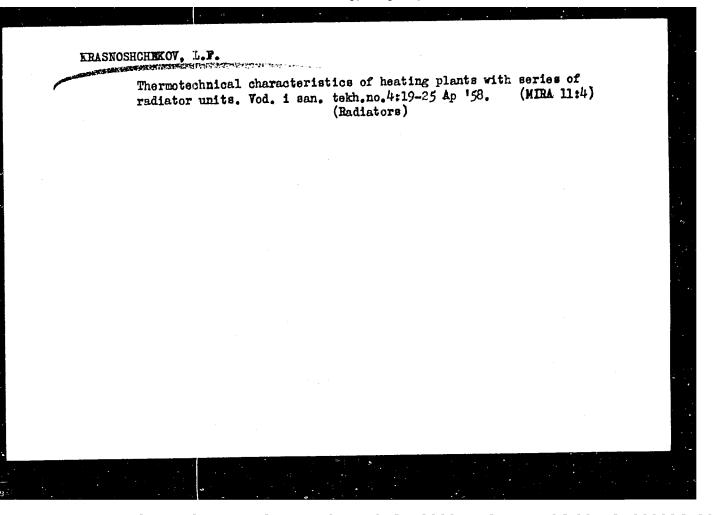
Foremost state farms of Smolensk Province ("Collective farm 'Komintern'"; Reviewed by A. Bogdanov). Sots. sel'khom. 23, no. 6, 1952.

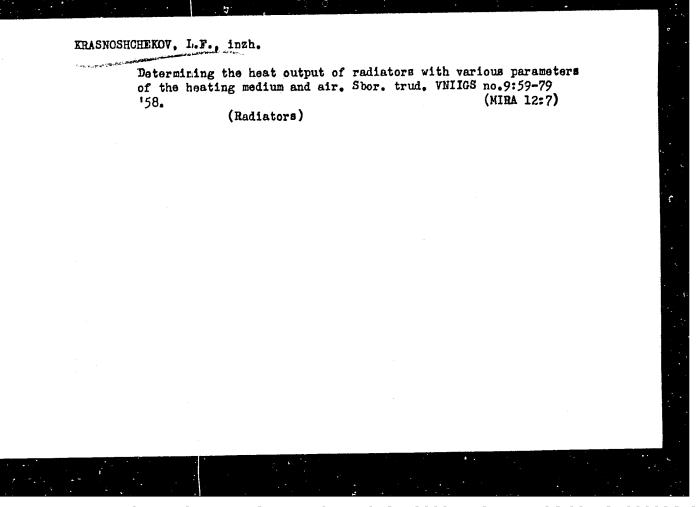
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Tank truck for liquefied petroleum gases. Gas.prom. no.10:12-13
0 '57. (MIRA 10:10)

(Tank trucks) (Liquefied petroleum gas)





KRASNOSHCHEKOV, L. F. Cand Tech Sci -- (diss) "Study of plate heaters with corridor and corridor-shifted layout of pipes." Mos, 1959. 23 pp (Min of Higher and Secondary Specialized Education RSFSR. Mos Order of Labor Red Banner Construction Engineering Inst im V. V. Kuybyshev), 150 copies (KL, 49-59, 140)

-44-

New formulas for calculating the design of air heaters. Vod. 1 san. tekh. no.11:17-22 N '60. (MIRA 13:11)

(Hot-air heating)

KLYACHKO, L.S., inzh.; KRASNOSHCHEKOV, L.F., inzh.; AKOPYAN, V.V., inzh.; ARAMANOVICH, R.P., inzh.

Standard for ventilation air ducts with rectangular cross sections. Mont.i spets.rab.v stroi. 22 no.6:26-28 Jl '60. (MIRA 13:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhnicheskikh i sanitarno-tekhnicheskikh rabot, trest Santekhmontazh-62.

(Ventilation)

KRASNOSHCHEWOW, L.E.

the thods of comparative evaluation and normative indices for steel radiators. Shore trud. VNIIGS no.18:105-119 163.

Thermal calculation of heating plants. Ibid.:120-128 (MIRA 18:9)

UGLOV, F.G.; KURBANGALEYEV, S.M.; BOKAREV, Yu.N.; VORONOV, A.A.; DEGTYAREVA, Z.Ya.; KRASNOSHCHEKOVA, L.I.; MURSALOVA, F.A.; POTASHEV, L.V.; PASSVETAYEV, I.L.; SIMBIRTSEV, S.A.; SOKOLOV, S.S.

Use of the artificial blood circulation apparatus built by the Research Institute for Experimental Surgical Apparatus and Instruments in an experiment. Trudy NIIEKHAI no.5:132-137 161.

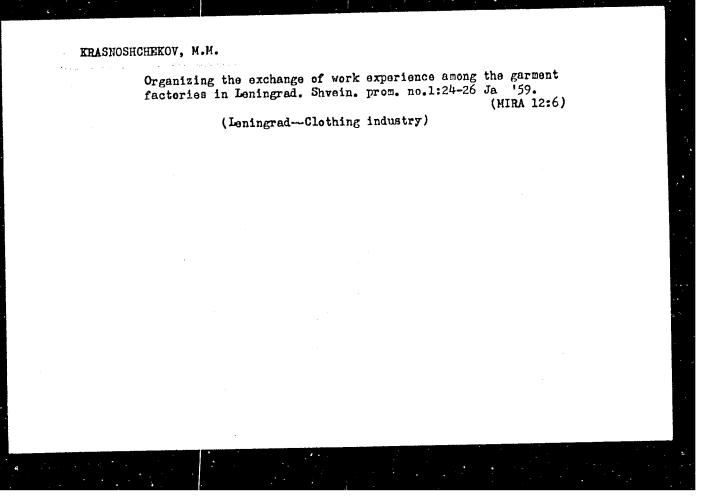
(MIRA 15:8)

(PERFUSION PUMP (HEART))

UGLOV, F.G.; SAZONOV, K.N.; KRASNOSHUHEKOV, L.I.; SMIRNOV, A.D.

Diagnostic puncture of the atrium sinistrum with saturaterization of the left cavities of the heart and the aorta. Trudy Inst. klin. i eksper. kard. AN Gruz, SSR 8\*560-575 (IRA 17%7)

1. Iz gospital noy khirurgicheskoy kliniki I Leningradskogo meditsinskogo instituta.

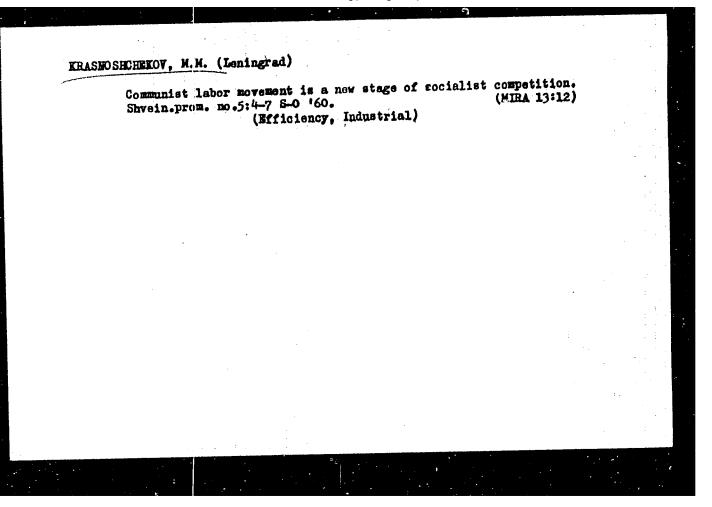


What hampers the growth of labor productivity? Shvein.

What hampers the growth of labor productivity? Shvein.

prom. no.1:9-12 Ja-F '60. (HIRA 13:6)

(Leningrad--Clothing industry-Labor productivity)

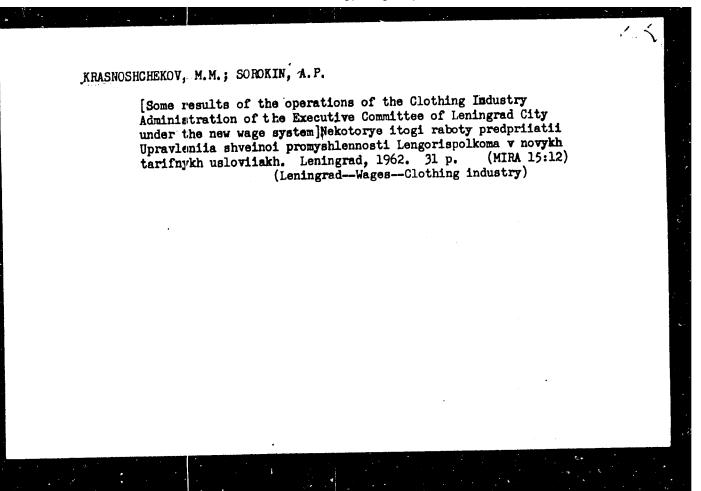


SOROKIN, Aleksey Petrovich; KRASNOSHCHEKOV, M.M., kand. ekon. nauk, red.; SHILLING, V.A., red. 1zd-va; BELOGUROVA, I.A., tekhn. red.

[Work practices of brigades of communist labor in the enterprises of the Administration of the Clothing Industry of the Leningrad City Executive Committee; a lecture given in the Leningrad House of Scientific and Technical Propaganda at a seminar for workers in the clothing industry] Opyt raboty brigad kommunisticheskogo truda na predpriiatiiakh Upravleniia shveinoi promyshlennosti Lengorispolkoma; stenogramma lektsii, prochitannoi v LDNTP na seminare dlia rabotnikov shveinoi promyshlennosti. Leningrad, 1961. 18 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Seriia: Shveinaia promyshlennosti!, no.2) (MIRA 14:12)

NOVIKOV, Nikolay Sergeyevich; KRASNOSHCHEKOV, M.M., kand. ekon. nauk, red.; FREGER, D.P., red. izd-va; GVIRTS, V.L., tekhn. red.

[Organization of the work for the exchange of practices in the "Boll'shevichka" Clothing Factory in Leningrad]Organizatsiia raboty po obmenu peredovym opytom na leningradskoi shveinoi fabrike "Boll'shevichka"; stenogramma lektsii, prochitannoi v LDNTP na seminare dlia rabotnikov shveinoi promyshlennosti. Leningrad, 1962. 26 p. (MIRA 15:11) (Leningrad—Clothing industry)

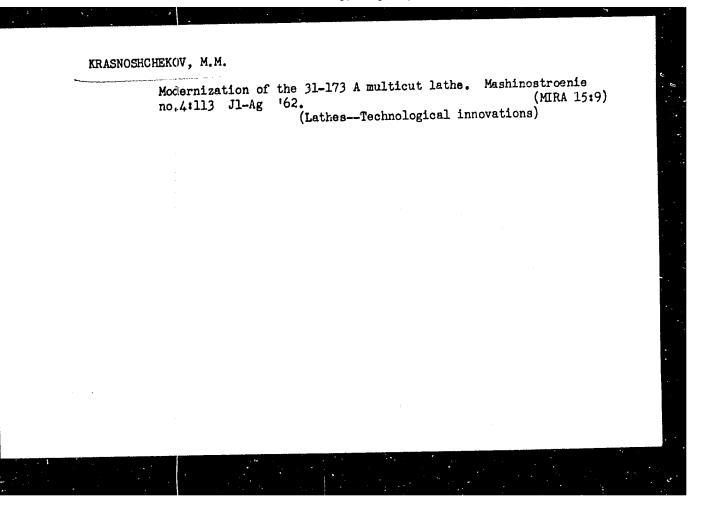


KOCHEGURA, N.M., KRASNOSHCHEKOV, M.M., MARKOVSKIY, Ye.A.

Effect of nuclear radiation on the properties of metal alloys.

Struk.i svois.lit.splav. no.l:67-75 '62. (MIRA 15:5)

(Metals, Effect of radiation on) (Alloys-Testing)



Wrashoshchekov, M.M.; Pakhomov, B.P.; Markovskiy, Ye.A.

Use of radioactive isotopes in studying the wear resistance of crank shafts. Trakt. i sel'khozmash. 32 no.2:36-38 F '62.

(MIRA 15:2)

1. Institut liteynogo proizvodstva AN USSR.

(Tractors—Enginos)

(Radioactive substances—Industrial applications)

5/743/62/000/001/004/008

AUTHORS: Koche gura, N. M., Krasnoshchekov, M. M., Markovskiy, Ye. A.

TITLE: On the effect of nuclear radiations on the properties of metallic alloys.

SOURCE: Struktura i svoystva litykh splavov. no.1. Inst. lit. proizv. AN USSR.

Kiev, Izd-vo AN UkrSSR, 1962, 67-75.

TEXT: The paper provides a discussion based on a literature survey, primarily of English-language Western publications. It discusses the effects of nuclear neutron radiation on metallic alloys in the sense of the Seitz and Brinkmann theories. The effects of neutron radiation on the hardness, tensile strength, and yield point of various steels, including SAE 1018 and 1095, stainless steel 304 and 316, and ASTM-A212B and -A242 with various grain sizes, are summarized in several extensive tables. Radiation impingement on cast structural steels, especially when in the normalized or annealed state, can substantially increase the strength of such materials, afforcing them a strength that approaches that of work-hardened steel. It is suggested that investigations be performed to establish the changes in the properties of irradiated cast materials versus the radiation dose and to ascertain the minimal radiation dose that affords the desired effect. It appears advisable also to undertake an investigation of the effect of neutron radiation on the heat

Card 1/2

On the effect of	ruclear radiations on the S/743/62/000/001/004/008
treatment of cas Russian-languag original papers, Inst., v.194, 196	alloys. There are I figure, 4 tables, and 23 references (9 soviet, 13 Russian-language translations of English-language and 1 English-language original: Harries, D., J. of Iron & Steel 60, 289).
	Institut liteynogo proizvodstva, AN USSR (Institute of Casting
	Production, AS UkrSSR).
	。我们也是一种有效的最后,但是这种有效的是一种的人的特殊的,也是有一种的人的,但是一种的人的人的人,但是一种的人的,只是一个人的人的,我们就是这种的人的人的,就是
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Card 2/2	

MARKOVSKIY, Ye.A.; KRASNOSHCHEKOV, M.M.

Measurement of the temperature of friction surfaces of parts by means of a weldless thermocouple. Zav. lab. 29 no.9: (MIRA 17:1)

1. Institut liteynogo proizvodstva AN UkrSSR.

MARKOVSKIY, Ye.A., inzh.; PAKHOMOV, B.P., inzh.; TIKHONOVICH, V.I., inzh.; KRASNOSHCHEKOV, M.M., inzh.

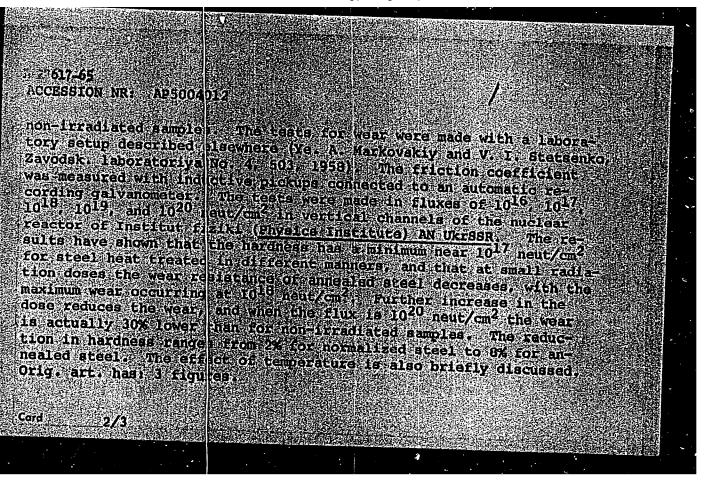
Using high-strength cast iron in precision friction pairs. Mashinostroenie no.4:105-106 J1-Ag '63. (MIRA 17:2)

1. Institut liternogo proizvodstva AN UkrSSR.

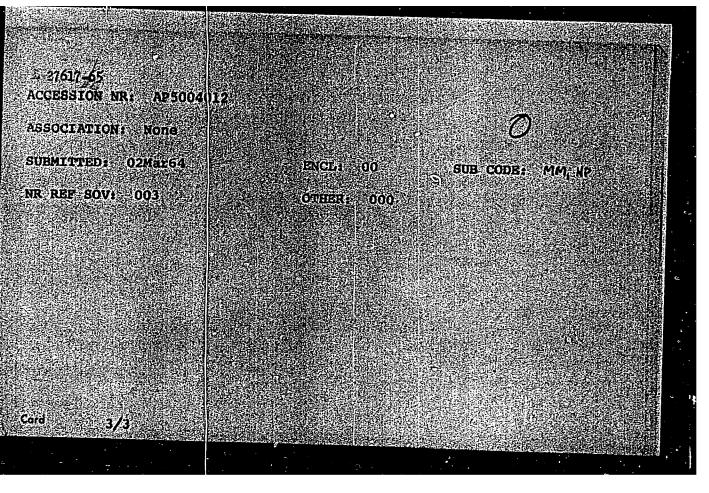
KRASNOSHCHEKOV, M.M., inzh.

Modern wear-resistant bearing materials. Mashinostroenie no.6: 99-103 N-D '63. (MIRA 16:12)

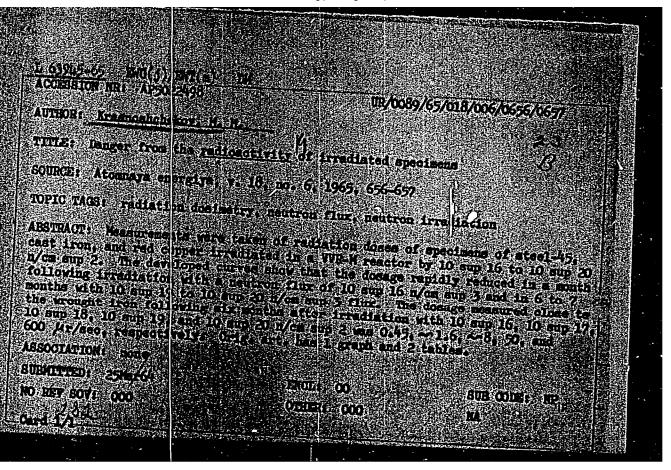
L-701/65 BP(1)/87%)	(EVF(c))/REA(3))/REP(c)::2/EVE(c)/7/EVP(b)/EVA(b)   25-21/
ACCESSION NR: AB50040	12 8/0089/65/018/001/0072/007 <u>2</u>
	(a) Avi Kraandandhakov, M. N.  (a) Avi Kraandandhakov, M. N.  (a) Avi Kraandandakov, M. N.  (a) Avi Kraandandandkov, M. N.  (a) Avi Kraandandandandkov, M. N.  (a) Avi Kraandandandandkov, M. N.  (a) Avi Kraandandandandkov, M. N.  (a) Avi Kraandandandandandkov, M. N.  (a) Avi Kraandandandandandkov, M. N.  (a) Avi Kraandandandandandandandkov, M. N.  (a) Avi Kraandandandandandandandandandandandandand
	ive v 18 30. 1-1965/ 72-73
TOPIC TAGE: neutron.i sistance, hardness	Cradiation, radiation damage, steel, wear 18-
changes in the antity;	of the investigation was to determine the twonxproperties of medium-carbon steel under
flux causing a change	In Liftaclation under real conditions prevaliting Inditions prevaliting Inditions prevaliting Inditions prevaliting Inditions prevaliting Inditions prevaliting Inditions prevaliting Indianal Indiana
and 10 mm long. The a	49% (0:0.56% Min. 0.27% Si) 3 mm in diameter my les were irradiated with different integral different integral different integral different mith
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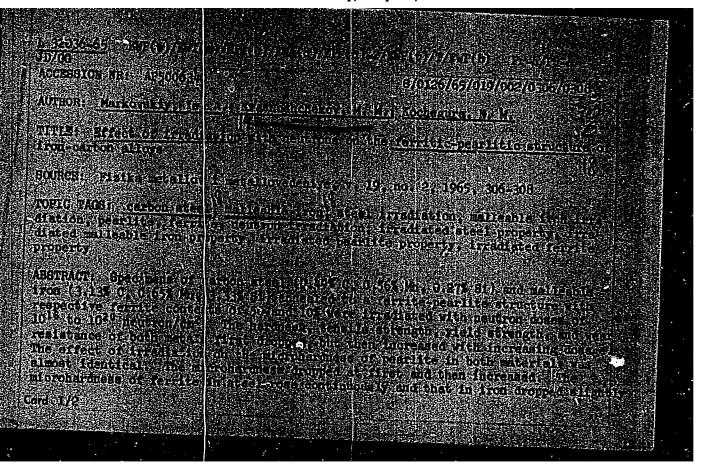


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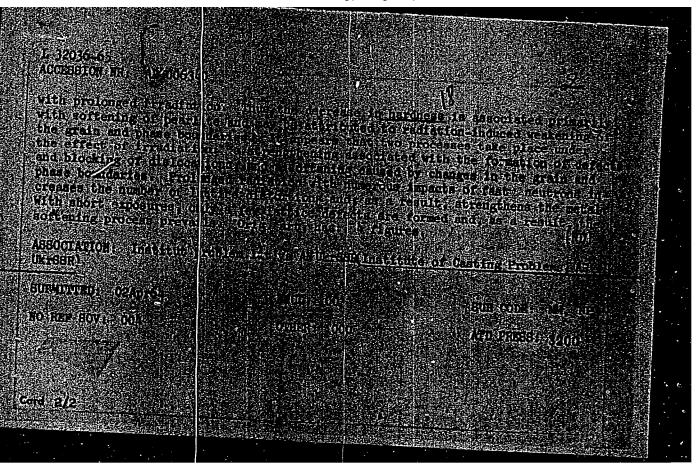


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"APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-RDP86-00513R000826120



ACC NR: AP5028371  SOURCE CODE: UR/0369/65/001/005/0552/0556  AUTHOR: Markovskiy, te. A.; Krasnoshchekov, M. M.; Kochegura, N. M.  ORG: Institute of Foundry Problems, AN UkrSSR, Kiev (Institut problem lit'ya AN UkrSSR)  TITLE: Changes in the antifriction and strength characteristics of structural materials subjected to neutron irradiation  SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 5, 1965, 552-556  TOPIG TAGS: steel, copper, antifriction material, antifriction metal, neutron structural metal, metal physical property, stress relaxation  ABSTRACT: This work studies the changes in the antifriction parameters of some in an oberational neutron reactor. Simultaneously, the changes in some of the structural metals and alloys subjected to various degrees of neutron irradiation structural metals and alloys subjected to various degrees of neutron irradiation structural metals and alloys subjected to various degrees of neutron irradiation structural metals and alloys subjected to various degrees of neutron irradiation structural metals and alloys subjected to various degrees of neutron irradiation structural metals and alloys subjected to various degrees of neutron irradiation structural metals and alloys subjected to various degrees of neutron irradiation structural metals and alloys subjected to various degrees of neutron irradiation structural metals of the materials are also determined. The materials proposes, and services of stress relaxation under the effect of irradiation may take place not only and 1/2	L 12165-66 EWT(m) ACC NR: AP5028371	/EPF(n)-2/T/ENA(d)/EWP(t)/EWP(z)/EWP(b)/EWA(h) JD/DJ SOURCE CODE: UR/0369/65/001/005/0552/0556	
TITLE: Changes in the antifriction and strength characteristics of structural materials subjected to neutron irradiation  SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 1, no. 5, 1965, 552-556  TOPIC TAGS: steel, copper, antifriction material, antifriction metal, neutron irradiation, nuclear reactor material, cast iron, irradiation effect, fabricated attructural metal, metal physical property, stress relaxation  ABSTRACT: This work studies the changes in the antifriction parameters of some in an oberational neutron reactor. Simultaneously, the changes in some of the studied were steel No. 45, various types of cast iron, copper, and SB-30 lead cass of stress relaxation grounds to conclude that the accelerated	ORG: <u>Institute of Fo</u> OKrSSR)	te. A.; Krasnoshchekov, M. M.; Kochegura, N. M.	
irradiation, nuclear reactor material, cast iron, irradiation effect, fabricated structural metal, metal physical property, stress relaxation  ABSTRACT: This work studies the changes in the antifriction parameters of some in an operational neutron reactor. Simultaneously, the changes in some of the studied were steel No. 45, various types of cast iron, copper, and SB-30 lead cass of stress relaxation to conclude that the accelerated	ITLE: Changes in the aterials subjected to	antifriction and strength characteristics of structural neutron irradiation	
pronze. The results obtained give grounds to conclude that the accelerated	rradiation, nuclear rructural metal, metal SSTRACT: This work s ructural metals and an operational neut	tactor material, cast iron, irradiation effect, fabricated physical property, stress relaxation  tudies the changes in the antifriction parameters of some con reactor. Simultaneously, the changes in some of the changes in some con reactor.	
	onze. The results of	45, various types of cast iron, copper, and SB-30 lead	

is made to explain the time-dependent decrease in the strength of steel subjected to irradiation, but it is not sufficiently grounded. Further experimental work is required. The work performed showed, however, that the materials tested, after tron irradiation satisfactory antifriction and strength, obtain under prolonged neutron irradiation satisfactory antifriction and strength characteristics and may be present authors, should be directed toward the study of the wear resistance and and in special media. Orig. art, has: 5 figures.  SUB CODE: 11, 18 / SUBM DATE: 130ct64 / ORIG REF: 002 / OTH REF: 001	L 12165-66		
	is made to explain to irradiation, but is required. The wo undergoing a stage of tron irradiation satisuccessfully used to	relative decrease in strength, obtain under prolonged ne sfactory antifriction and strength characteristics.	k fter u-
HW	setting of materials and in special media.	li be directed toward the study of the wear resistance and under neutron irradiation, in vacuum, at high temperature Orig. art. has: 5 figures.	
	setting of materials and in special media.  SUB CODE: 11, 18 / S	DIM DATE: 130ct64 / ORIG REF: 002 / OTH REF: 001	
	setting of materials and in special media.  SUB CODE: 11, 18 / S	DIM DATE: 130ct64 / ORIG REF: 002 / OTH REF: 001	

MARKOVSKIY, Ye.A.; KRASNOSHCHEKOV, M.M.; KOCHEGUBA, N.F.

Changes in the antifriction and strength characteristics of structural materials subjected to neutron irradiation. Fig.-khim. meks. mat. 1 no.5:552-556 \*65. (MIRA 19:1)

1. Institut problem lit'; a AN UkrSSk, Kiyev. Submitted Oct. 13, 1964.

#### "APPROVED FOR RELEASE: Monday, July 31, 2000

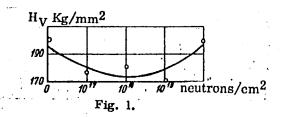
CIA-RDP86-00513R000826120

L 40796-66 EWT(m)/T/EWP(t)/ETI IJP(c) GG/DJ/JD ACC NR: AP6019714 SOURCE CODE: UR/0128/66/000/006/0032/0032 AUTHOR: Markovskiy, Ye. A. (Candidate of technical science); Krasnoshchekov, M. M. (Engineer) ORG: none TITLE: Softening of cast iron on irradiation with neutrons (Presented for discussion) SOURCE: Liteynoye proizvodstvo, no. 6, 1966, 32 TOPIC TAGS: metal softening, neutron, radiation, cast iron, wear resistance, water moderated reactor ABSTRACT: Normally, the neutron irradiation of metals increases their strength and reduces their plasticity. However, the irradiation of certain alloys with relatively small neutron doses in a conventional nuclear reactor without special cooling and in the presence of gamma radiation may lead to some softening of these alloys. This has been observed for not only alloys in work-hardened or annealed state but also for annealed malleable cast iron. Thus, the authors exposed groups of specimens of mallaeable cast iron, annealed for 34 hr at 970°C, to integral fluxes of  $10^{16}$ ,  $10^{17}$ ,  $10^{18}$ ,  $10^{19}$ , and  $10^{20}$  neutrons/cm<sup>2</sup> in a water-modera-1/3 UDC: 620, 193, 6:669, 131, 2 Card

#### L 40796-166

#### ACC NR: AP6019714

-ted water-cooled reactor. Before and after the irradiation the specimens were tested for linear wear W, friction coefficient  $\mu$  and temperature t of the lubricant emerging from the friction zone, Vickers hardness, and microhardness. The wear tests showed that W,  $\mu$  and t are hardly affected by irradiation. (It is noteworthy, however, that W increases markedly in the presence of  $10^{18}$  neutrons/cm<sup>3</sup>, although it eventually again returns to normal.) Hardness, as a yardstick of plastic deformation, is a characteristic of the wear resistance of materials. The pattern of variation in the hardness of the irradiated malleable and high-strength cast irons resembles the pattern of variation in their wear resistance. Thus (Fig. 1) hardness decreases following



the irradiation of malleable cast iron with insignificant neutron fluxes (10<sup>17</sup>-10<sup>18</sup> neutrons/cm<sup>2</sup>)

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APPROVED FOR RELEASE: Monday, July 31, 2000

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L 40796-66

ACC NR: AP6019714

but increases again as the neutron dose is increased. A similar pattern of variation in microhardness is observed. Evidently this is associated with the softening of the pearlitic component, since the hardness of the ferritic component increases monotonically with irradiation. It appears that the softening of annealed cast iron and various steels in the presence of low neutron doses is attributable to defects caused in the crystal lattice of the material by the neutron. As regards cast iron, a definite role is played by the cementite and ferrite grain boundaries, which apparently get weakened by the defects introduced by neutron irradiation, when these defects migrate toward grain boundaries. Thus, irradiation is accompanied by two simultaneous processes: softening of the material due to the weakening of grain boundaries and hardening of the crystal lattice in proportion to the number of the bombarding fast neutrons. As irradiation time increases, the hardening process begins to predominate. Orig. art. has: 3 figures.

SUB CODE: 11,18,20 / SUBM DATE: none/

Card 3/3

APPROVED FOR RELEASE: Monday, July 31, 2000 CIA-R

CIA-RDP86-00513R000826120(

NATSENTOV, D.I., kandidat sel'skokhozyaystvennykh nauk; MKRTCH'YAN, V.S., kandidat sel'skokhozyaystvennykh nauk; ARKHANGZL'SKIY, P.Ye., inzhener; NOSKOV, B.G., arkhitektor; KRASNOSHCHEKOV, N., redaktor; LIL'YE, A., tekhnicheskiy redaktor

[Greenhouses, hotbeds and heated soil] Teplitsy, parniki, uteplennyi grunt. [Moskwa] Moskovskii rabochii, 1956. 246 p. (MIRA 9:9)

1. Nauchno-issledovatel'skiy institut ovoshchnogo khozyaystva (for Natsentov. Mkrtch'yan) 2. Respublikanskiy gosudarstvennyy institut proyektirovaniya sovkhoznykh predpiyatiy - Rosgiprosovkhozstroi) (for Arkhangel'skiy). 3. Vsesoyuznyy gosudarstvennyy institut proektirovaniya sel'skokhozyaystvennykh predpriyatiy - Soyuzgiprosel'khoz (for Noskov)

(Hotbeds) (Soil heating) (Greenhouses)

KALASHNIKOV, Aleksey Petrovich, kand.sel'skokhozyaystvennykh nauk;
ZAGORSKIY, G., red.; KRASNOSHCHEKOV, N., red.; YAKOVLEVA, Ye.,
tekhn.red.

[Corn as feeding stuff for farm animals] Kukuruza v ratsionakh
sel'skokhoziaistvennykh zhivotnykh. [Moskva] Mosk.rabochii,
1957. 59 p. (Gorn (Maize))

(Gorn (Maize))

KRASNOSHCHEKOV, N., red.

[Orchards and vegatable gardens on personal lots] Sad 1 ogorod na priusadebnom uchastke. Moskva, Moskovskii rabochii, 1958. 382 p.

(Truit culture) (Vegetable gardening) (MIRA 11:9)

TSAPKO, V. G.; PAUSTOVSKAYA, V. V.; KRASNOSHCHEKOV, N. A. (Kiyev)

Sanitary hygienic characteristics of work conditions in streptomycin production, Gig. truda i prof. zab. no.1:52-53 '62.

(MIRA 15:2)

1. Kiyevskiy meditsinskiy institut.

(INDUSTRIAL HYGIENE) (STREPTOMYCIN\_TOXICOLOGY)

PAUSTOVSKAYA, V.V., kand. med. nauk; TSAPKO, V.G.; KRASNOSHCHEKOV, N.A.

Effect of streptomycin on the organism. Vrach. delc no.2: 123-127 F\*64 (MIRA 17:4)

1. Kafedra gigiyeny trwia ( zav. - chlen-korrespondent AMN SSSR prof. G.Kh. Shakhbazyam) Kiyevskogo meditsinskogo instituta.

# KRASNOSHCHEKOV. N.N.

Sanitary and hygienic characteristics of the atmosphere in the preparatory shops of the milling and feltmaking industry. Kaz. med.zhur. 41 no.1:105-108 Ja-F '60. (MIRA 13:6)

1. Iz Vsesoyuznogo nauchno-issledovatel'skogo instituta okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov v g. Kazani. (TEXTILE INDUSTRY--HYGIENIC ASPECTS) (AIR--POLLUTION)

### KRASNOSHCHEKOV, N.N.

Incidence of disease among workers of the Kazan Fulling Mill and the Kukmorsk Felting and Footwear Plant. Kaz. med. zhur. no.4:91-95 J1-Ag '61. (MIRA 15:2)

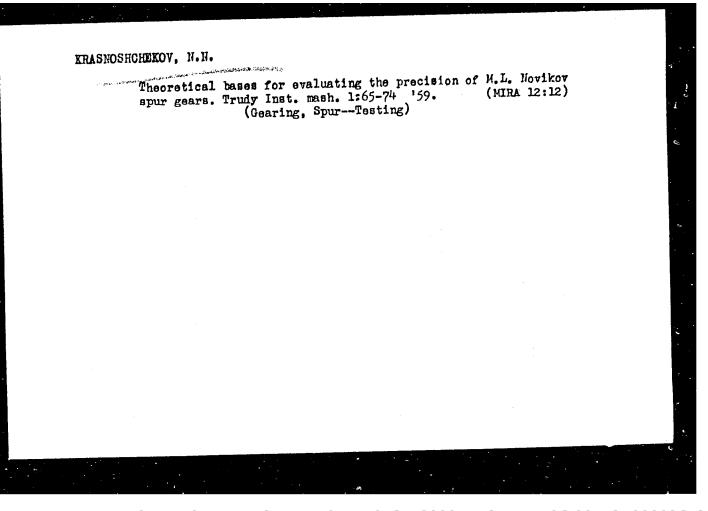
1. Vsesoyuznyy nauchno-issledovatel'skiy institut okhrany truda (Kazan') (TATAR A.S.S.R.\_WOOL INDUSTRY AND TRADE\_HYGIENIC ASPECTS)

### "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826120

KRASNOSHCHEKOV, N. N.: Master Tech Sci (diss) -- "Some problems of the precision and control of the geometry of gear wheels with M. L. Novikov's gearing". Moscow, 1958. 19 pp (Acad Sci USSR, Inst of Machine Science), 150 copies (KL, No 1, 1959, 119)

Checking spur gears with M.L.Novikov meshing. Vest.mash. 38 no.10:3-9 0 '58. (MIRA 11:11) (Gearing, Spur--Testing)



KRASNOSHCHEKOV, N.S., aspirant

Degree of sensitivity of Novikov's gears to deviations of basic geometrical parameters. Izv. vys. ucheb. zav.; mashinostr. no.33/4: 52-63 '58. (MIRA 12:5)

l.Institut mashinovedeniya AN SSSR. (Gearing)

PUTINTSEVA, M.A., nauchnyy sotr.; KRASNOSHCHEKOV, N.V., nauchnyy sotr.; BODRTDINOV, A.Z., nauchnyy sotr.; PESTRYAKOVA, A.I., red.; SOKOLOVA, N.N., tokhn. red.; TRUKHINA, O.N., tokhn. red.

[Higher speeds in the fields of Siberia] Povyshennye skorosti na poliakh Sibiri. Moskva, Sel'khozizdat, 1962. 86 p. (MIRA 15:6)

1. Sibirskiy nauchno-issledovatel'skiy institut sel'skogo khozyaystva (for Pütintseva, Krasnoshchekov, Bodrtdinov). (Siberia--Tractors)

\*

SAMITOVA, P.Sh.; KRASNOSHCHEKOV, N.N.

Incidence of occupational diseases among workers at a fiber glass factory. Kaz. med. zhur. no.1:83-85 Ja-F:61. (MIRA 16;11)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta professional'nykh soyuzov v Kazani (direktor- kand. tekh. nauk V.A. Bakharev).

Disc machinery for high-speed operation. Mekh.i elek.sots.sel'khoz.

20 no.4:22-23 '62.

1. Sibirskiy nauchno-issledovatel'skiy institut sel'skogo
khozyaystva.

(Agricultural machinery)

KRASNOSHCHEKOV, P.S. (Moscow)

"Oscillations of a solid body having cavities filled up with a viscous fluid for large Reynolds numbers".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.

# "APPROVED FOR RELEASE: Monday, July 31, 2000

CIA-RDP86-00513R000826120

36827-66 EWP(m)/EWT(1) GD

ACC NR: AT6016795 (N) SOURCE CODE: UR/0000/65/000/000/0265/0282

AUTHOR: Krasnoshchekov, P. S.; Moiseyev, N. N.; Shmidt, A. G.;

B+/

ORG: Computing Center, Academy of Sciences, SSSR, Moscow (Vychislitel'nyy tsentr Akademii nauk SSSR)

TITLE: A class of problems in the dynamics of viscous fluid

SOURCE: International Symposium on Applications of the Theory of Functions in Continuum Mechanics. Tiflis, 1963. Prilozheniya teorii funktsiy v mekhanike sploshnoy sredy. t..2: Mekhanika zhidkosti i gaza, matematicheskiye metody (Applications of the theory of functions in continuum mechanics. v. 2; Fluid and gas mechanics, mathematical methods); trudy simpoziuma. Moscow, Izd-vo Nauka, 1965, 265-282

TOPIC TAGS: viscous fluid, fluid flow, fluid dynamics, boundary value problem, nonsteady flow, Navier Stokes equation, harmonic function, harmonic oscillation

ABSTRACT: This report is devoted to some problems in the theory of nonsteady flow of a viscous fluid, originating during the oscillation of various solids which either contain fluid or are immersed in a fluid, as well as during the oscillations of fluid volumes having a free surface. The authors primarily investigate linear problems, i.e., problems on the oscillations of fluids with small amplitude.

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## L 36827-66

ACC NR: AT6016795

,A discussion shows that the boundary-value problem for the determination of the velocity field of viscous fluid flow with certain conditions may be reduced to the boundary-value problem (in the general case not self-congugate) for harmonic functions. The report presents a general method for the solution of such problems and investigates a series of problems involving osc llations of low-viscosity/fluids, specifically, such problems as the oscillation of a fluid of infinite depth, free oscillations of a fluid confined in a vessel, forced oscillations, and oscillations of a spherical layer. The methods developed for the asymptotic integration of linearized Navier-Stokes equations make possible an effective investigation of a class of problems on the oscillation of solids filled with a viscous fluid. Two such problems are treated: a) the problem of a pendulum with a viscous fluid, and b) the plane problem of the motion of a solid with a viscous fluid in a central force field. It is shown in case b that as a result of the dissipation of energy the orbit eccentricity will constantly diminish; the radius of the limiting circular orbit is determined. An attempt is made to extend the methods developed to the problem of nonlinear oscillations. Orig. art. has: 3 figures and 47 formulas.

SUB CODE: 20/ SUEM DATE: 13Sept65/ ORIG REF: 002/ OTH REF: 001

Card 2/2

CIA-RDP86-00513R0008261200 APPROVED FOR RELEASE: Monday, July 31, 2000

ACC NRI AT6034347 UR/0000/66/000/000/0258/0266 SOURCE CODE: AUTHOR: Krasnoshchekov, P. S. (Moscow) ORG: none TITLE: Small oscillations of a solid body with its cavity filled with a viscous liquid SOURCE: Chislennyye metody resheniya zadach matematicheskoy fiziki (Numerical methods of solving problems in mathematical physics); soornik statey. Moscow, Izd-vo Nauka, 1966, 258-266 TOPIC TAGS: viscous flow, incompressible fluid, Reynolds number, mechanical vibration, pendulum motion ABSTRACT: The motion of a viscous incompressible fluid that completely fills a cavity in a solid body is analyzed when the body is subjected to small-amplitude oscillations relative to its center-of-mass motion. The governing linearized equations are given by  $\frac{1}{\mathrm{Re}}(\nabla\times\Omega),$ where, at the cavity boundary, one has  $u = -y\dot{0}, \quad v = x\dot{0},$  $w=0 \ (0=d0/dt).$ Card 1/3517.9:532 UDC:

C NR: AT6034347	
ter a successive apuations is obtained	plication the "div" and "rot" operators, the following set of for the functions $\phi$ and $\Omega$ :
	$\Delta \varphi = 0$ , $\frac{\partial \Omega}{\partial t} = \frac{1}{\text{No}} \Delta \Omega$ ,
d on the boundary	$\frac{\partial \varphi}{\partial x} - \frac{1}{11e} \left( \frac{\partial \Omega_2}{\partial y} - \frac{\partial \Omega_2}{\partial z} \right) = -y\ddot{\theta},$
	$\frac{\partial \varphi}{\partial y} - \frac{1}{10} \left( \frac{\partial \Omega_1}{\partial z} - \frac{\partial \Omega_2}{\partial z} \right) = x \ddot{\theta}, \qquad ($
	$\frac{\partial \varphi}{\partial z} - \frac{1}{110} \left( \frac{\partial \Omega_1}{\partial z} - \frac{\partial \Omega_1}{\partial y} \right) = 0 \qquad (\ddot{\theta} = d^3\theta/dt^3).$
r planar oscillatio	ons,
<i>:</i>	$\Omega_n = 20 \cos(n, z)$
added to the above	set. The solution is obtained by a series expansion technique $\varphi = \varphi_0 + \varepsilon \varphi_1 + \varepsilon^2 \varphi_1 + \cdots$
	$\Omega_k = \frac{1}{\epsilon}\Omega_{0\kappa} + \Omega_{1k} + \epsilon\Omega_{2k} + \dots \qquad (k = 1, 2, 3)$
ading to the resul	ts
	$u = -\frac{r(\beta)\cos\alpha}{2\sqrt{\pi}}\eta\int_{0}^{\infty}\dot{O}(t-\tau)\frac{\exp\left[-\eta^{2}/4\tau\right]}{\tau^{2/4}}d\tau + O(\epsilon),$
	$v = \frac{r(\beta)\sin\alpha}{2\sqrt{\pi}} \eta \int_{0}^{t} \dot{O}(t-\tau) \frac{\exp\left[-\eta^{2}/4\tau\right]}{\tau^{2/4}} d\tau + O(8),$

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addomod.	. เมือง อากาไซร	OJ BRRAL BIR	axiaymmetric c an integro-di as: 23 equatio	TYCICHTANCE Offer	th viscous liquation which is a	ad is
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				<i>4.</i> <b>₹</b> 1		
d 3/3						

S/040/63/027/002/001/**019** D251/D308

AUTHOR:

Krasnoshchekov, P. S. (Moscow)

TITLE:

On the oscillations of a physical pendulum having a hollow filled with viscous liquid

PERIODICAL: Prikladnaya matematika i mekhanika, v. 27, no. 2, 1963, 193-202

TEXT: The problem stated is investigated by a method similar in principle to that used by N. N. Moiseyev (Zhurnal vychislit. matemat. fiziki, 1961, v. 1, no. 3). On the basis of the Navier-Stokes equations, and the equation of continuit, a solution is sought in the form

$$\vartheta(t) = ce^{\sigma t}, \quad \underline{Y} = ce^{\sigma t} \underline{U}(x,y,z) \qquad (1.9)$$

where 0 = a 9 is the angle of inclination of the pendulum to the

On the oscillations ... S/040/63/027/002/001/019 equilibrium position, C is the characteristic amplitude, U is the potential of the massive forces acting on the liquid. It is assumed that the Reynolds' number  $W_{Re}$  is sufficiently large, and  $1/W_{Re} = e^2$  where  $\mathcal{E}$  is a small parameter. By using small parameter methods and Y, an approximate solution V and adopting a linearised equation for  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  where  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  where  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  where  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  where  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  where  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  where  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) \sqrt{2} + O(\varepsilon) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) + I\sigma \cos(s) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) + I\sigma \cos(s) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) + I\sigma \cos(s) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)\sigma \cos(s) + I\sigma \cos(s) \right] e^{\sigma t}$  and  $V' = -c \frac{R}{T} \left[ I\sigma - r(s)$ 

On the oscillations

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vity of the cavity from the axis of support, relative to the characteristic dimension of the cavity. A method of evaluating o is given using complex variable methods, which gives a sixth degree polynomial which by Descartes! rule has one positive root. By writing

$$\gamma \bar{x} = y, \frac{\omega^2}{\sqrt{2} \sqrt{4}} = q^2$$

and taking q to be large, an expansion in powers of  $1/\sqrt{9}$  is obtained. It is shown that this case of large q corresponds to the oscillations of a pendulum containing an ideal liquid. A simplified example is considered as an illustration. There are 3 figures.

SUBMITTED: January 29, 1962

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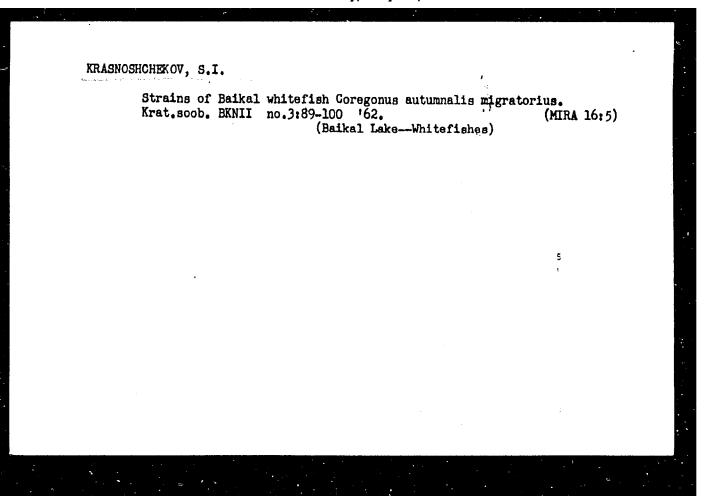
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#### KRASNOSHCHEKOV, S.I.

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Rapid method of determining chlorine in alkyl(aryl)chlorosilanes.

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Interaction of silicohydrofluoric acid with benzidine. Zhur.neorg.khim. 9 nc.1:183-186 Ja '64. (MIRA 17:2)

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S/191/62/000/012/011/015 B101/B186

AUTHORS:

2,190

Kreshkov, A. P., Myshlyayeva, L. V., Krasnoshchekov, V. V.

TITLE:

Methods for determining silicon in organosilicon compounds and their comparative evaluation. Silicon determination in

hydrolyzable organosilicon compounds

PERIODICAL:

Plasticheskiye massy, no. 12, 1962, 51-55

TEXT: Si was determined gravimetrically, volumetrically and colorimetrically in hydrolyzable organosilicon compounds of the general formula  $SiR_4$ , where

R is a methoxy to hexyloxy, phenyloxy, acetoxy, furfuryloxy or isothiocyanate radical, also in polymers of these compounds and in resins modified with these compounds. The utility of these analytic methods is compared.

(1) Gravimetric determination by hydrolysis and weighing of the calcined SiO<sub>2</sub>: Only the methoxy, phenoxy, acetoxy, furfuryloxy and isothiobyanate

compounds can be hydrolyzed quantitatively and with a satisfactory rate in ammoniacal solution. Hydrolysis in HCl requires for the methoxy compound

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Methods for determining silicoh ...

a HCl concentration of 1:10, for ethoxy and propoxy compounds 1:1, and for the higher radicals concentrated HCl. (2) The volumetric determination was performed according to L. Kalman, R. Vago (Magyar kem. folyoirat, 64, 123 (1958)): Hydrolysis of the substance analyzed with 40% aqueous-alcoholic HF solution, neutralization of  $\rm H_2SiF_6$  with KOH, hydrolysis of  $\rm K_2SiF_6$  with CaCl<sub>2</sub> and iodometric HCl determination. (3) Si was determined colorimetrically by treating the substance with 15% KOH and 5% ammonium molybdate, reduction with  $\rm Na_2SO_3 + \rm Na_2SO_4$  and by colorimetry of the blue solution formed. Conclusion: For industrial laboratories and scientific research laboratories the volumetric method is recommended, since it requires little time (20-30 min) and its results almost equal those obtained in gravimetrical analysis. There are 7 tables.

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Methods of determining silicon in organosilicon compounds and their comparative evaluation. Determination of silicon in hydrolyzing organosilicon compounds. Plast. massy no.12:51-55 '62. (MIRA 16:1) (Silicon—Analysis) (Silicon organic compounds)